

APPENDIX A
"CLEAN" VERSION OF EACH PARAGRAPH/SECTION/CLAIM
37 C.F.R. § 1.121(b)(ii) AND (c)(i)

CLAIMS (with indication of amended or new):

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1. (AMENDED) A method for surface processing by plasma polymerization of a surface of a metal by using a DC discharge plasma, comprising the steps of:

- (a) positioning an anode electrode which is substantially of metal to be surface-processed and a cathode electrode in a chamber;
- (b) maintaining a pressure in the chamber at a predetermined vacuum level;
- (c) blowing an unsaturated aliphatic hydrocarbon monomer gas or a fluorine-containing monomer gas at a predetermined pressure and a non-polymerizable gas at a predetermined pressure into the chamber; and
- (d) applying a voltage to the electrodes in order to obtain a DC plasma consisting of positive and negative ions and radicals generated from the unsaturated aliphatic hydrocarbon monomer gas or the fluorine containing monomer gas and the non-polymerizable gas, and then forming a polymer with hydrophilicity or hydrophobicity on a surface of the anode electrode by plasma deposition.

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23. (AMENDED) The method for surface processing by plasma polymerization according to claim 1, wherein the DC discharge is performed periodically in the form of on/off pulsing during a total processing time.

24. (AMENDED) The method for surface processing by plasma polymerization according to claim 1, wherein the polymer obtained in the step (d) is surface-processed by a plasma of at least one non-polymerizable gas selected from the group consisting of O₂, N₂, CO₂, CO, H₂O and NH₃ gas in order to improve the hydrophilicity of the polymer.

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26. (AMENDED) The method for surface processing by plasma polymerization according to claim 1, wherein the ratio of the unsaturated aliphatic hydrocarbon monomer gas and the non-polymerizable gas is varied to vary the properties of the polymer.